



Supplemental SequenceDIV3.txt
SEQUENCE LISTING

<110> HO, CHIEN

TSAI, CHING-HSUAN

FANG, TSUEI-YUN

SHEN, TONG-JIAN

<120> LOW OXYGEN AFFINITY MUTANT HEMOGLOBINS

<130> 002547/20118/DIV3

<140> 09/986,666

<141> 2001-11-09

<160> 8

<170> PatentIn version 3.1

<210> 1

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> DESCRIPTION OF ARTIFICIAL SEQUENCE: Primer to introduce betaN108
Q mutation into plasmid pHE2

<400> 1

cgtctgctgg gtcaggtact agtttgcg

28

<210> 2

211 30

Supplemental SequenceDIV3.txt

<220>

<223> DESCRIPTION OF ARTIFICIAL SEQUENCE: Primer to introduce mutation
alphaD94A into plasmid pHE2

<400> 2
ctgcgtgttg ctccggtcaa cttcaaactg 30

<210> 3

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> DESCRIPTION OF ARTIFICIAL SEQUENCE: Primer to introduce betaL105
W mutation into plasmid pHE2

<400> 3
ggaaaacttc cgatggctgg gtaacgtac 29

<210> 4

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> DESCRIPTION OF ARTIFICIAL SEQUENCE: Primer to introduce betaN108
Q mutation into plasmid pHE7

<400> 4
acagaccagt acttgtccca ggaqcct 27

<210> 5

<211> 1140

<212> DNA

<213> Homo sapiens

caatttcaca caggaaacag aattcgagct cggtagccgg gctacatgga gattaactca 120

Supplemental SequenceDIV3.txt

```

atctagaggg tattaataat gtatcgctta aataaggagg aataacatat ggtgctgtct 180
cctgccgaca agaccaacgt caaggccgcc tggggtaagg tcggcgcgca cgctggcgag 240
tatggtgcgg aggccctgga gaggatgttc ctgtccttcc ccaccaccaa gacctacttc 300
ccgcacttcg atctgagcca cggctctgcc caggttaagg gccacggcaa gaaggtggcc 360
gacgcgctga ccaacgccgt ggcgcacgtg gacgacatgc ccaacgcgct gtccgccctg 420
agcgacctgc acgcgcacaa gcttcgggtg gacccggtca acttcaagct cctaagccac 480
tgcctgctgg tgaccctggc cgcccacctc cccgccgagt tcaccctgc ggtgcacgcc 540
tccctggaca agttcctggc ttctgtgagc accgtgctga cctccaaata ccgttaaact 600
agaggggtatt aataatgtat cgcttaaata aggaggaata acatatggtg cacctgactc 660
ctgaqqaqaa qtctgccgtt actgccctgt ggggcaagggt gaargtggat gaagttggtg 720
gtgaggccct gggcaggctg ctggtggtct acccttggac ccagaggttc tttgagtcct 780
ttggggatct gtccactcct gatgctgtta tgggcaaccc taaggtgaag gctcatggca 840
agaaagtgct cgggtgcctt agtgatggcc tggctcacct ggacaacctc aagggcacct 900
ttgccacact gagtgcgctg cactgtgaca agctgcacgt ggatcctgag aacttcaggc 960
tcctgggaca agtactggtc tgtgtgctgg cccatcactt tggcaaagaa ttcacccac 1020
cagtgcaggc tgcctatcag aaagtgggtg ctggtgtggc taatgccctg gccacaagt 1080
atcactaagc atgcatctgt tttggcggat gagagaagat tttcagcctg atacagatta 1140

```

<210> 6

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> DESCRIPTION OF ARTIFICIAL SEQUENCE: Primer to introduce betaL105
w mutation into plasmid pHE7

<400> 6

cctgagaact tcaggtggct aggcaacgtg ctggtc 36

<210> 7

<211> 1140

Supplemental SequenceDIV3.txt

```

<400> 7
aaatgagctg ttgacaatta atcatcggct cgtataatgt gtggaattgt gagcggataa 60
caatttcaca caggaaacag aattcgagct cggtacccgg gctacatgga gattaactca 120
atctagaggg tattaataat gtatcgctta aataaggagg aataacatat ggtgctgtct 180
cctgccgaca agaccaacgt caaggccgcc tggggtaagg tcggcgcgca cgctggcgag 240
tatggtgcgg aggccctgga gaggatgttc ctgtccttcc ccaccaccaa gacctacttc 300
ccgcacttcg atctgagcca cggctctgcc caggttaagg gccacggcaa gaaggtggcc 360
gacgcgctga ccaacgccgt ggcgcacgtg gacgacatgc ccaacgcgct gtccgccctg 420
agcgacctgc acgcgcacaa gttcgggtg gacccggtca acttcaagct cctaagccac 480
tgctgtctgg tgacctggc cgcacacctc cccgccgagt tcacccctgc ggtgcacgcc 540
tccttgga agttcctggc ttctgtgagc accgtgctga cctccaaata ccgttaaact 600
agaggggtatt aataatgtat cgcttaaata aggaggaata acatatggtg cacctgactc 660
ctgaggagaa gtctgccgtt actgccctgt ggggcaagg gaacgtggat gaagttggtg 720
gtgaggccct gggcaggctg ctggtggtct acccttgga ccagagggtt tttgagtcct 780
ttggggatct gtccactcct gatgctgtta tgggcaaccc taaggtgaag gctcatggca 840
agaaagtgtc cgggtgcctt agtgatggc tggctcacct ggacaacctc aagggcacct 900
ttgccacact gagtgaactg cactgtgaca agctgcacgt ggatcctgag aacttcaggt 960
ggctaggcaa cgtgctggtc tgtgtgctgg cccatcactt tggcaaagaa ttcacccac 1020
cagtgcaggc tgcctatcag aaagtgggtg ctggtgtggc taatgccctg gccacaagt 1080
atcactaagc atgcatctgt tttggcggat gagagaagat tttcagcctg atacagatta 1140

```

<210> 8

<211> 146

<212> PRT

<213> Homo sapiens

<400> 8

```

Val His Leu Thr Pro Glu Glu Lys Ser Ala Trp Thr Ala Leu Trp Gly
1          5          10          15

```

```

Lys Val Asn Val Asn Glu Val Gly Gly Gly Ala Leu Gly Arg Leu Leu

```

Supplemental SequenceDIV3.txt

Ser Thr Pro Asp Ala Val Met Gly Asn Pro Lys Val Lys Ala His Gly
50 55 60

Lys Lys Val Leu Gly Ala Phe Ser Asp Gly Leu Ala His Leu Asp Asn
65 70 75 80

Leu Lys Gly Thr Phe Ala Thr Leu Ser Glu Leu His Cys Asp Lys Leu
85 90 95

His Val Asp Pro Glu Asn Phe Arg Leu Leu Gly Asn Val Leu Val Cys
100 105 110

Val Leu Ala His His Phe Gly Lys Glu Phe Thr Pro Pro Val Gln Ala
115 120 125

Ala Tyr Gln Lys Val Val Ala Gly Val Ala Asn Ala Leu Ala His Lys
130 135 140

Tyr His
145